				· ICCAPA	<u>//</u>					
Work Ord December 10, 20			Allen							Page 1
Revision ID:	D4298-010 PRELIM Fixing Bracket	P	AET WILL	Accept				Setup Sta	1 18811181 81	
Start Date: Required Date: Reference:	12/10/10 12/13/10	Start Qty: 1.00 Req'd Qty: 1.00		11881	Cust Item I	D:				
Approvals:	Process Plan	n:	Date:	Tooling: SPC (Y/N):		nte:		Run Sta	1883 84 B	
Sequence ID/ Work Center II		Operation Description		Set Up/ Run Hours	Tool ID	Tool # Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr D4298	Revis PAT	sion Nbr								
100 HandThermo	,	Memo		0.00			۲ 3 .			Sh.
Hand Finishing The	rmoforming		eet to required Blank siz							10/17/09
105 HandThermo	,	Dry material Memo	Pal.	0.00	v. *		(1)	-		Sh
Hand Finishing The	rmoforming	Temp:	740°. 6:30 pm T: 7:00 am			· 				(o/13/10
				(

Work Order ID 64640

Page 2

December 10, 2010 9:51:11 AM

Item ID:

D4298-010

PRELIM

Revision ID: Item Name:

Fixing Bracket

Start Date: Required Date: 12/13/10

12/10/10

Start Otv: 1.00

Rea'd Otv: 1.00



Accept



Cust Item ID:

Customer:

Tool ID

Setup

Start



Stop

Reference:

Approvals:

Process Plan:

OC:

Operation

Description

Date: _____

Date:

SPC (Y/N):

Tooling:

0.00

0.00

Set Up/

Run Hours

Date:

Date:

Tool # Plan

Code

Run

Accept

Qty

Reject

Qty

Start

Reiect

Number

Stop

Insp.

Stamp

Sequence ID/ Work Center ID

110

Thermoform

Thermoforming Machine

Memo

1-Machine Set-Up

2-Pre-heat Tool to required temp.

3-Thermoform as per Dwg and Folio #FTA094 using tool DTXXXX

Dwg Rev: Folio Rev:

120

QC **Quality Control** OC2- Inspect parts off machine FAI/FAIB

Memo

0.00

0.00

Visually inspect part for proper formation and texture

130

QC

Quality Control

QC8- Inspect parts - second check

Memo

0.00

0.00

Work Order ID 64640

December 10, 2010 9:51:12 AM



Page 3

Item ID:

D4298-010

Revision ID:

PRELIM Fixing Bracket

Item Name: **Start Date:**

12/10/10

Start Qty: 1.00

Required Date: 12/13/10

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

QC:

Operation

Description

Date:

Date: **Tooling:**

Accept

SPC (Y/N):

Set Up/

Run Hours

Tool ID

Date:

Date:

Tool # Plan Code Accept Qty

x2

Reject Qty

Run

Setup Start

Stop

Start

Stop

Reject Number

Insp. Stamp

140

Sequence ID/

Work Center ID

HandThermo

Hand Finishing Thermoforming

Memo

1-Trim to finished dimensions as per Dwg

0.00

0.00

x2

150

Quality Control

QC2- Inspect parts off machine FAI/FAIB

0.00

Memo

Memo

Complete FAI document

0.00

160

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

0.00

Work Order ID 64640

Page 4

December 10, 2010 9:51:12 AM

Item ID:

D4298-010

PRELIM

Revision ID: Item Name:

Fixing Bracket

Start Date:

12/10/10

Start Qty: 1.00 Req'd Qty: 1.00

Accept



Setup Start



Stop

Required Date: 12/13/10 Reference:

Approvals:

Process Plan:

QC:

Date:

Date:

SPC (Y/N):

0.00

0.00

Tooling:

Tool ID

Cust Item ID:

Customer:

Date:

Tool # Plan

Code

Date:

Run Start

Reject

Qty

Accept

Qty

Stop

Insp.

Stamp

Reject

Number

Sequence ID/ Work Center ID

170 .

Packaging

Packaging

Operation Description

Identify as per dwg & Stock Location:

prel.

Set Up/ **Run Hours**

E 10.12.14

180

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

Memo

0.00

POSITIVE RECALL

EFFECTIVE DE LAUTH

EFFECTIVE.

POSITIVE RECALL

RELEASED

Picklist Print

December 10, 2010 9:51:09 AM

Work Order ID: 64640

Parent Item:

D4298-010

Parent Item Name: Fixing Bracket



Start Date: 12/10/10

Required Date: 12/13/10

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev. A New Issue 10/12/09 DL

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Primary Item Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MLEXS.125 - 9034 -		Purchased	No		100	sf	0.0000	1.67	1.678392			. (1

1/8" Lexan Sheet

M 106403

Page 1

DART AEROSPACE LTD	Work Order:	64640
Description:	Part Number:	D4298-010
Inspection Dwg: 174398 Rev: 17		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST THERMOFORMING SECTION

Description	Accept	Reject	Method of Inspection	Comments
Inside Radii less than"	~			
Shape Definition				
Texture Retention				
Material imperfections such as bumps, cracks, voids, scratching	/			
				1 1
Measured by:]		Date:	10/12/10

TRIMMING SECTION

		I KIMIMING	JEOIN	/1 4		
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
2,29,1		2.31"				
1.90"		1.80"				1.78" JHW
41,88 "		4.0"				5.08" TH-07
3.22"		2.23"				
4,50 "		4,56"				
1.48"		458"		1. 1	d	
			See	AHACK		
				(-A+	tor	
		1		لعم	rimming	
-			_		0	
Measured	by:	Th.			Date:	10/12/10
Audited	by:				Date:	
eliminary Approv	/al:	H-100-11-1			Date:	

Rev	Date	Change	Revised by	Approved
В	10.04.14	Added preliminary approval	KJ	

DART AEROSPACE LTD	Work Order:	64640
Description:	Part Number:	D4298-010
Inspection Dwg: D4398 Ol/Rev: A.		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

THERMOFORMING SECTION

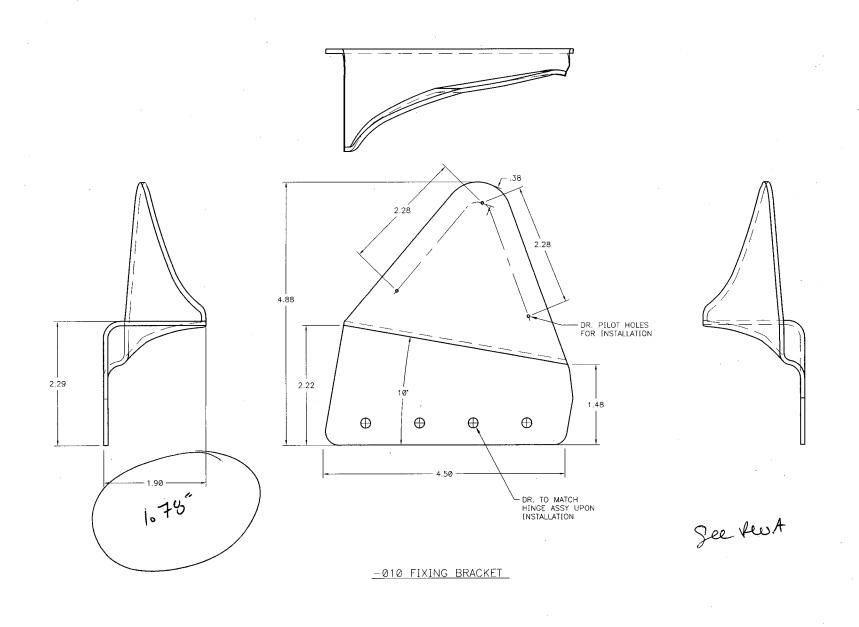
Description	Accept	Reject	Method of Inspection	Comments
Inside Radii less than"	レ			
Shape Definition	~			
Texture Retention				
Material imperfections such as bumps, cracks, voids, scratching	_			
				
Measured by:]		Date:	119/11/14

TRIMMING SECTION

	Drawing mension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Co	omments	
	2.22"		2.204"	~].
	1.90"		478"	<u>'</u>			oKil	lou cus	tomal.
	41.88"		4,82"					by cus	e-mail.
	4.5011		4.51"	V					
	1.48"		1.477"	~					
									_
							<u> </u>		4
									-
 									4
<u> </u>									+
				<u> </u>	<u> </u>	<u> </u>	<u> </u>		
	Measure	ed by:	The			Date:	101	12/14	
	Audite	ed by:	2			Date:	10.13	2-14	
Prelin	ninary App	roval:				Date:]
Rev	Date	Change	.,			Revise	d by	Approved]
В	10.04.14	Added preliminary ap	oproval			. KJ			J

Part was trimmed too large. so it was re-trimmed and new FAI.

\$ 10.04.W



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Era Helicopters LLC

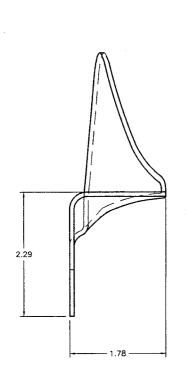
SINGLE PILOT VFR CHART HOLDER, AW139

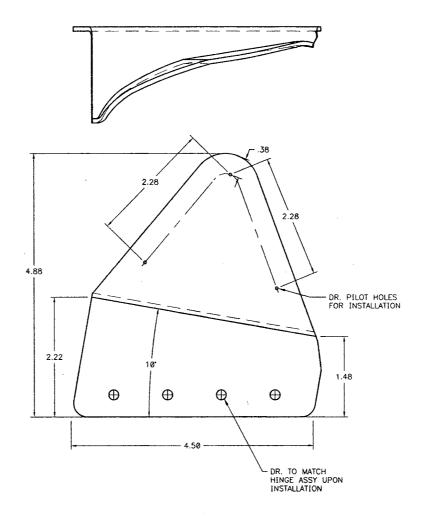
SIZE DWG. NO. 13939-1-290 SHT 6 OF 10

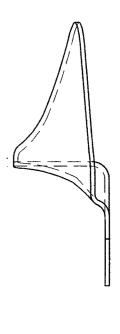
DART P/N	ERA P/N	Description
D4298-001	13939-1-290-001	CHART HOLDER ASSY
D4298-002	13939-1-290-002	PLATE SUB-ASSY
D4298-003	13939-1-290-003	PLATE SUB-ASSY
D4298-004	13939-1-290-004	FIXING BRACKET SUB-ASSY
D4298-005	13939-1-290-005	HINGE SUB-ASSY
D4298-006	13939-1-290-006	MACHINED INNER SUB-ASSY
D4298-007	13939-1-290-007	MACHINED OUTER SUB-ASSY
D4298-008	13939-1-290-008	PLATE
D4298-009	13939-1-290-009	PLATE
D4298-010	13939-1-290-010	FIXING BRACKET
D4298-011	13939-1-290-011	HINGE
D4298-012	13939-1-290-012	HINGE
D4298-013	13939-1-290-013	HINGE
D4298-014	13939-1-290-014	HINGE
D4298-015	13939-1-290-015	CLIP ANGLE
D4298-016	13939-1-290-016	CLIP STOP
D4298-017	13939-1-290-017	CLIP STOP MOUNT
D4298-018	13939-1-290-018	MACHINED INNER
D4298-019	13939-1-290-019	MACHINED OUTER
D4298-020	13939-1-290-020	KNOB
D4298-021	13939-1-290-021	MACHINE BOLT
D4298-022	13939-1-290-022	PIN TOPPER
D4298-023	13939-1-290-023	PIN
D4298-024	13939-1-290-024	SERRATED ADJUSTMENT WASHER



Α	NEW IS	NEW ISSUE			10.12.15		
REV.			DESCRIPTION	BY	DATE		
DESIGN		SC	DART AEROSPACE LTD				
DRAWN		SC	HAWKESBURY, ONTAR				
CHECKE	D	W)	DRAWING NO.		REV. A		
MFG. AF	PR.	Per	D4298		SHEET 1 OF 1		
APPRO\	/ED	AWA	TITLE		SCALE		
DE APP	₹.	-#-	CHART HOLDER (AW 139)		NTS		
DATE 10.12.15		2.15	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT NOT TO BE USED FOR MAY PURPOSE OR COPIED OR COMMUNICATED TO MY OTHER PERSON WITH WITTEN PERSISSION FROM DARY AEROSPACE LTD.				







-010 FIXING BRACKET

w/064640

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Era Helicopters LLC

SINGLE PILOT VFR CHART HOLDER, AW139

SIZE DWG. NO. 13939-1-290 SHT 6 OF 10

Eric Charbonneau

From:

Domingue, Elvin [edomingue@erahelicopters.com]

Sent:

December 13, 2010 10:46 AM

To:

Nelson, David; 'echarbonneau@dartaero.com'

Subject:

Re: -010/-015 (AW139 Chart Holder)

We should be ok with this.

Elvin Domingue

Sent from my BlackBerry Wireless Device

From: Nelson, David

To: 'Eric Charbonneau' < echarbonneau@dartaero.com >

Cc: Domingue, Elvin

Sent: Mon Dec 13 09:42:13 2010

Subject: FW: -010/-015 (AW139 Chart Holder)

Eric,

I'm forwarding to Elvin for the decision on these matters.

For the -010, this would make the chart holder about 1/8" closer to the instrument panel, but shouldn't affect its operation. If it does, perhaps we could add an 1/8" shim.

For the -015, I spoke with our machinist and he said 6063-T5 is okay to substitute.

Thanks, David

From: Eric Charbonneau [mailto:echarbonneau@dartaero.com]

Sent: Monday, December 13, 2010 8:04 AM

To: Nelson, David Subject: -010/-015

Hi David, couple of things here, on 13939-1-290-010 there's one dimension that we could not achieve, I attached a copy of the dwg with the non-conforming dimension please let me know if this will be acceptable, also for the -015 we did not have any 6061-T6... we have 6063-T5, would this mat'l be acceptable for the first unit.

Regards,

ERIC CHARBONNEAU

Production Engineering Coordinator



T(613) 632-5200 F(613) 632-1053

echarbonneau@dartaero.com



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